

AMENDMENTS TO THE CLAIMS

This Listing of Claims will replace all prior versions and listings of claims in this application.

Listing of Claims:

1.-46. (Cancelled)

47. (Currently Amended) A process for secured distribution of at least one digital fixed picture in an original stream, wherein the picture includes sequences of data that respectively contain a part of information of the picture, the original stream being in a nominal compressed block format based on wavelets, and the original stream including wavelet coefficients, the process comprising:

modifying the original stream by modifying the wavelet coefficients to produce a modified stream having ~~modified in~~ the same nominal block format as the original stream;

generating complementary information including modified information from the original stream, the complementary information also including one or more functions for reconstructing the original stream with the modified information, wherein a respective one of the one or more functions contains at least one instruction relating data associated with the complementary information and/or the modified stream and one or more operators associated with reconstructing the original stream from the modified stream; and

separately transmitting the modified stream and the complementary information to an addressee equipment for reconstruction of the original stream from the modified stream and the complementary information, wherein the reconstruction is adaptive and progressive as a function of information associated with a digital profile of the addressee equipment provided in the complementary information.

48. (Previously Presented) The process according to claim 47, wherein

the modifying comprises producing a modified main stream and the complementary information permitting reconstruction of the original stream by a decoder;

the generating comprises determining a subset of the complementary information as a function of information derived from a digital profile of the addressee equipment; and

the transmitting comprises transmitting to the addressee equipment the subset of the complementary information.

49. (Previously Presented) The process according to claim 47, wherein
the modifying comprises producing a modified main stream and complementary information permitting reconstruction of the original stream by a decoder;
the generating comprises determining a subset of the complementary information as a function of information derived from a hardware profile of the addressee equipment; and
the transmitting comprises transmitting to the addressee equipment the subset of the complementary information.

50. (Cancelled)

51. (Previously Presented) The process according to claim 47, wherein the original stream has a property of scalability in resolution.

52. (Previously Presented) The process according to claim 47, wherein the original stream has a property of spatial scalability.

53. (Previously Presented) The process according to claim 47, wherein the original stream has a property of qualitative scalability.

54. (Previously Presented) The process according to claim 47, wherein the original stream has a property of spectral scalability.

55. (Previously Presented) The process according to claim 47, wherein the transmitting further comprises transmitting the modified main stream to the addressee equipment prior to transmitting the complementary information to the addressee equipment.

56. (Previously Presented) The process according to claim 47, wherein the transmitting further comprises transmitting part of the modified main stream to the addressee equipment prior to transmitting the complementary information to the addressee equipment.

57. (Previously Presented) The process according to claim 47, wherein the transmitting further comprises transmitting the modified main stream and the complementary information together in real time.

58. (Previously Presented) The process according to claim 48, wherein determining a subset of the complementary information includes determining the subset based on scalability properties of the original stream.

59. (Previously Presented) The process according to claim 48, wherein determining a subset of the complementary information includes determining the subset based on properties of granular scalability of the complementary information.

60. (Previously Presented) The process according to claim 48, further comprising determining a quantity of information contained in the subset based on a level of scalability determined as a function of a profile of the addressee equipment.

61. (Previously Presented) The process according to claim 48, further comprising determining information contained in the subset based on a level of scalability determined as a function of a profile of the addressee equipment.

62. (Previously Presented) The process according to claim 48, wherein generating complementary information includes generating complementary information that comprises at least one digital routine suitable for executing a function.

63. (Previously Presented) The process according to claim 47, wherein the transmitting

further comprises transmitting the functions to addressee equipment which functions are customized for the addressee equipment as a function of a session.

64. (Previously Presented) The process according to claim 47, wherein the generating further comprises encrypting the complementary information for addressee equipment as a function of a session.

65. (Previously Presented) The process according to claim 47, wherein the generating further comprises subdividing the complementary information into at least two subparts.

66. (Previously Presented) The process according to claim 65, wherein the transmitting further comprises transmitting the subparts by different media.

67. (Previously Presented) The process according to claim 65, wherein the transmitting further comprises transmitting the subparts by the same medium.

68. (Previously Presented) The process according to claim 47, wherein the transmitting further comprises transmitting all or part of the complementary information on a physical vector.

69. (Previously Presented) The process according to claim 47, wherein the transmitting further comprises transmitting the complementary information on-line.

70. (Previously Presented) The process according to claim 48, wherein the determining comprises updating information contained in the subset as a function of behavior of the addressee equipment during connection to a server or as a function of habits or as a function of data communicated by a third party.

71. (Previously Presented) The process according to claim 48, wherein the determining comprises updating the quantity of information contained in the subset as a function of behavior of addressee equipment during connection to a server or as a function of habits or as a function

of data communicated by a third party.

72. (Previously Presented) The process according to claim 47, further comprising analog/digital converting data in a structured format, which is applied to an analog signal.

73. (Previously Presented) The process according to claim 47, further comprising transcoding a digital stream from any format to a format with scalability properties.

74. (Previously Presented) The process according to claim 47, wherein a plurality of digital fixed pictures constitute a succession of digital pictures.

75. (Previously Presented) The process according to claim 47, wherein the modifying comprises applying different modifications of the data sequences for at least two pictures of a succession of pictures.

76. (Previously Presented) The process according to claim 75, wherein the applying different modifications of the data sequences of a picture of a succession of pictures include modifying the data sequences of preceding pictures in temporal order of the succession based on properties of spatial and qualitative scalability of transformations in wavelets.

77. (Previously Presented) The process according to claim 47, wherein granular scalability of the complementary information is based on qualitative, spatial and in-resolution scalabilities of streams stemming from a transformation in wavelets of the pictures.

78. (Previously Presented) The process according to claim 47, wherein the process is performed without loss of picture quality.

79. (Previously Presented) The process according to claim 47, further comprising inserting, during reconstruction of the original stream, an indelible and imperceptible trace into the reconstructed original stream, which trace carries a non-ambiguous identifier.

80. (Previously Presented) The process according to claim 47, further comprising inserting, after reconstruction of the original stream, an indelible and imperceptible trace into the reconstructed original stream, which trace carries a non-ambiguous identifier.

81. (Previously Presented) The process according to claim 79, further comprising detecting the indelible and imperceptible trace by software that analyzes reconstructed original stream.

82. (Previously Presented) The process according to claim 79, further comprising authenticating a user with the non-ambiguous identifier.

83. (Previously Presented) The process according to claim 79, further comprising authenticating addressee equipment on which an reconstruction algorithm for reconstructing the original stream was executed with the non-ambiguous identifier.

84. (Previously Presented) The process according to claim 79, further comprising identifying a session opened by a user during the course of which reconstitution of the original stream is executed with the non-ambiguous identifier.

85. (Previously Presented) The process according to claim 84, further comprising realizing a scrambling session and descrambling session under control of a secured server disguised as a selected third party.

86. (Previously Presented) The process according to claim 84, further comprising identifying the session by a secured server with a register that is configured to store for the session: an identifier associated with the session, an identifier of a user or identifier of addressee equipment, and an identifier associated with subject matter of the session, and an identifier representing a date-time group.

87. (Previously Presented) The process according to claim 79, further comprising calculating

a digital signature from the reconstructed original stream, wherein the inserted trace generates a unique and respective signature for different ones of the reconstituted streams, and the signature is stored on a secured server playing disguised as a selected third party.

88. (Previously Presented) The process according to claim 79, wherein a stream reconstituted by descrambling has the same visual quality as the original stream and exists in a usable form only if it carries said trace.

89. (Previously Presented) The process according to claim 79, wherein a stream reconstituted by descrambling exists in a usable form only if a digital signature extracted during an authenticity control is identical to a signature stored on a secured server.

90. (Previously Presented) The process according to claim 79, wherein the process is applied to an audiovisual digital stream that is coded according to a proprietary norm or standard.

91. (Previously Presented) A system for secured distribution of fixed digital pictures comprising a server that includes: means for broadcasting a modified stream according to claim 47, a plurality of devices provided with respective descrambling circuits, means for recording respective digital profiles of corresponding instances of the address equipment, and means for analyzing at least one digital profile of at least one instance of addressee equipment to which the modified stream is transmitted, which analyzing means controls the nature of complementary information transmitted to the addressee equipment.

92. (Previously Presented) The system according to claim 47, further comprising determining a respective level of the complementary information for at least one instance of addressee equipment based upon a state of a profile associated with the addressee equipment.